

Module 1 MY GARBAGE

An Exploration of Solid Waste

M1-1m

Master Materials List

Nevada Staı	M1-1s	
References		M1-1r
Ì	Just a Dream Environmental Intro Using Van Allsburg's <u>Just A Dream</u>	M1-3
	It's the Old Style Landfill-Municipal Solid Waste	M1-13
	My Landfill is Sanitary Landfill-Municipal Solid Waste	M1-45
	How Long Does Trash Last? Waste Decomposition	M1-71
	Potato Chip Dilemma <i>Reduce</i>	M1-89
	Play It Again, Sam <i>Re-use</i>	M1-105
	Warhol Waste Art Project/Assessment: Collage	M1-121
Lesson 8 – '	Warhol Waste	M1-135

Art Project/Assessment: Collage

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Module 1 Master Materials List

<u>Student workbooks</u> are used for every lesson. In nearly every lesson the white board and <u>dry erase markers</u> are used. Should you be inclined, <u>transparencies</u> can be made and used on an <u>overhead projector</u> with <u>water based markers</u>.

1	Just a Dream by Chris Van Allsburg					
1	<u>The Dumpster Diver</u> by Janet S. Wong					
14	2L plastic soda bottles (the same bottles will be used for lessons 2 & 3)					
17	Remove the labels.					
1	X-Acto knife					
1	Pair nylon hose					
1	Permanent marker					
28	Cotton balls					
14	Cups shredded paper					
28	Cups soil					
14	Rubber bands					
14	Cups water					
1	Measuring cup					
7	Reusable grocery bags					
100	One gallon Zip-Lock bags (some of these can be reused)					
7	Cups small aquarium gravel					
1	Large block of modeling clay					
1	Plastic trash bag					
2						
	Square feet of nylon deck shade fabric (geotextile fabric)					
7	Plastic straws					
1	Roll paper towels					
2	Large measuring bowls					
1	Large bag potato chips (20oz)					
20	Small bags potato chips (equal weight to the large bag)					
10	Sandwich sized zip-lock baggies					
10	Plastic reusable food containers					
30	Pieces printer paper					
30	Sets colored pencils / crayons					
30	Magazines					
30	Pieces 11 X 17 paper					
30	Glue sticks					
30	Scissors (student)					



Nevada Standard Alignment

_			<u>Nevada</u>	<u>Nevada</u>	<u>Nevada</u>	<u>Nevada</u>
Lesson	Title	Topic	Science	Language Arts	Geography	Mathematics
1	Just a Dream	Introduction	N.5.B.2	2.5.1, 2.5.2, 2.5.3, 3.5.9,	2.5.4, 5.5.1, 5.5.3,	n/a
				7.5.1, 7.5.2, 7.5.5, 8.5.1,	5.5.4, 6.5.4	
				8.5.2, 8.5.4		
2	It's the Old	Landfills	N.5.A.6, N.5.B.2,	7.5.1, 7.5.2, 7.5.3, 7.5.5,	2.5.4, 3.5.3, 3.5.5,	1.5.8, 3.5.1
	Style		E.5.A.4, E.5.C.3,	8.5.1, 8.5.2, 8.5.4	5.5.1, 5.5.3, 5.5.4,	
			E.5.C.5, L.5.C.2,		6.5.4	
			L.5.C.3, L.5.C.4			
3	My Landfill is	Landfills –	N.5.A.6, N.5.B.2,	7.5.1, 7.5.2, 7.5.3, 7.5.5,	2.5.4, 3.5.3, 3.5.5,	n/a
	Sanitary	Sanitary	E.5.A.4, E.5.C.3,	8.5.1, 8.5.2, 8.5.4	5.5.1, 5.5.3, 5.5.4,	
			E.5.C.5, L.5.C.2,		6.5.4	
			L.5.C.3, L.5.C.4			
4	How Long	Waste	N.5.A, N.5.A.1,	7.5.1, 7.5.2, 7.5.3, 7.5.5,	2.5.4, 3.5.3, 3.5.5,	5.5.1
	Does Trash	Decomposition	N.5.A.2, N.5.A.3,	8.5.1, 8.5.2, 8.5.4	5.5.1, 5.5.3, 5.5.4,	
	Last?		N.5.B.2, N.5.B.3,		6.5.4	
			L.5.C.2, L.5.C.3,			
			L.5.C.4			
5	Potato Chip	Waste	N.5.A.3, N.5.B.2,	7.5.1, 7.5.2, 7.5.3, 7.5.5,	2.5.4, 4.5.6, 5.5.1,	n/a
	Dilemma	Reduction	L.5.C.3	8.5.1, 8.5.2, 8.5.4	5.5.3, 5.5.4, 6.5.4	
6	Play It Again,	Material Re-	N.5.B.2	4.5.7, 5.5.1, 5.5.3, 5.5.4,	2.5.4, 4.5.6	n/a
	Sam	Use		5.5.5, 5.5.7, 6.5.7,7.5.1,		
				7.5.2, 7.5.3, 7.5.5, 8.5.1,		
				8.5.2, 8.5.4		
7	Warhol Waste	Assessment	Assessment	Assessment	Assessment	Assessment
8	Warhol Waste	Assessment	Assessment	Assessment	Assessment	Assessment
	(part 2)					



Module 1 MY GARBAGE

References

Lesson 1 – **Just a Dream**

Van Allsburg, Chris. (1990). Just a Dream. New York: Houghton Mifflin.

Houghton Mifflin Company. (2008). *A Teacher's Guide: Just a Dream by Chris Van Allsburg*. Retrieved April 9, 2008, from http://www.houghtonmifflinbooks.com/features/thepolarexpress/tg/dream.shtml

White, Marilyn. (2008). "We have met the enemy... and he is us.". Retrieved April 9, 2008, from http://www.igopogo.com/we_have_met.htm

Lesson 2 – It's the Old Style

Nevada Division of Environmental Protection. (2007). *State of Nevada Solid Waste Management Plan 2007*. Retrieved May 28, 2008 from http://ndep.nv.gov/bwm/swmp/swp06.htm#sec2.5

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Oregon Department of Environmental Quality. (2001). Lesson 05: Making A Model Landfill. Retrieved May 28, 2008 from http://www.deq.state.or.us/lq/pubs/docs/sw/curriculum/RRPart0305.pdf

United States Environmental Protection Agency. (2003). *Recycle City: Landfill*. Retrieved May 28, 2008 from http://www.epa.gov/recyclecity/landfill.htm#New

Lesson 3 – My Landfill is Sanitary

Oregon Department of Environmental Quality. (2001). Lesson 05: Making A Model Landfill. Retrieved May 28, 2008 from http://www.deq.state.or.us/lg/pubs/docs/sw/curriculum/RRPart0305.pdf

United States Environmental Protection Agency. (2003). *Recycle City: Landfill*. Retrieved May 28, 2008 from http://www.epa.gov/recyclecity/landfill.htm#New

Lesson 4 – **How Long Does Trash Last?**

Hopkins, Gary. (2003). *How Long Does Trash Last?* (A Cooperative Learning Activity). Retrieved April 8, 2008 from http://www.educationworld.com/a_lesson/03/lp308-04.shtml

Rathje, W. L., & Murphy, C. (1992). *Rubbish!: the archaeology of garbage*. New York, NY: HarperCollins.

Lesson 5 – **Potato Chip Dilemma**

American Plastics Council. (1993). The Potato Chip Dilemma: A Lesson About Source Reduction. *4 Classroom Activities on Plastics and Solid Waste Management*. 11-13.

Lesson 6 – Play It Again, Sam

Wong, Janet S. (2007). The Dumpster Diver. Cambridge: Candlewick.

Candlewick Press. (2007). *The Dumpster Diver: An Activity Guide*. Retrieved April 9, 2008, from http://www.candlewick.com/book_files/0763623806.mis.1.pdf

Lesson 7 – Warhol Waste

No works referenced for this lesson.

Lesson 8 – Warhol Waste

Discovery Education. (2007). *Discovery Education's Puzzlemaker*. Retrieved May 29, 2008 from http://puzzlemaker.discoveryeducation.com/